N-Acetylserine

Cat. No.: HY-134222A

CAS No.: 16354-58-8

Molecular Formula: $C_5H_9NO_4$

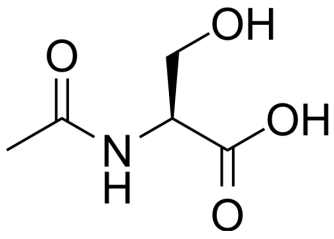
Molecular Weight: 147.13

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (849.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.7967 mL	33.9836 mL	67.9671 mL
	5 mM	1.3593 mL	6.7967 mL	13.5934 mL
	10 mM	0.6797 mL	3.3984 mL	6.7967 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N-Acetylserine (N-Acetyl-L-serine) can bind to CysB apoprotein. N-acetylserine is the physiological inducer of cysteine biosynthesis. N-Acetylserine can stimulate in vitro cysJIH transcription[1][2].

IC_{50} & Target

Human Endogenous Metabolite

REFERENCES

[1]. Lynch AS, et al. Characterization of the CysB protein of Klebsiella aerogenes: direct evidence that N-acetylserine rather than O-acetylserine serves as the inducer of the cysteine regulon. Biochem J. 1994 Apr 1;299 (Pt 1)(Pt 1):129-36.

[2]. Ostrowski J, et al. Molecular characterization of the cysJIH promoters of Salmonella typhimurium and Escherichia coli: regulation by cysB protein and N-acetyl-L-serine. J Bacteriol. 1989 Jan;171(1):130-40.

Caution: Product has not been fully validated for medical applications. For research use only.

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